



7-Post Specifications

Wheel Pan Actuator Type Servotest
 Rated Force Capacity +/- 25.0 kN @ 210 Bar
 Maximum Velocity 1,000 mm/second
 Aerodynamic Loading Actuator Type Servotest
 Rated Force Capacity +/- 20.0 kN
 Total Sensor Input Channels 44
 Wheel Pan Accelerometers 4 PCB Piezotronics
 Wheel Pan Displacements 4 RDP Electrosense
 Wheel Pan Load Cell 4 Servotest
 Aeroloader Displacement 3 RDP Electrosense
 Aeroloader Velocity 3 Trans-tek
 Aeroloader Load Cell 3 Servotest
 Wheel/Body Accelerometers 7 PCB Piezotronics

Vehicle Dynamics 7-Post

ARC, the Best Kept Secret in Efficiency!

ARC's 7-Post Vehicle Dynamics Rig offers our customers the ability to **optimize suspension performance** in a repeatable environment at a cost that is considerably lower than road testing.

Our expert vehicle dynamics engineers can provide assistance with test plan design, data interpretation, and results analysis. Test inputs from swept-sine waves to **reproducing road conditions** using data gathered at the race track or vehicle proving ground.

Using system ID techniques, variables such as damping curves and effective spring rates can be quantified and correlated to the road/track. Innovations such as **temperature controlled dampers and tires** improve accuracy, which gives a better understanding of the real-world effects of these variables.

The 7-Post test rig is also used by many commercial OEMs for **durability testing**.

The ARC Vehicle Dynamics Rig is located in Indianapolis, and is **available to rent** on a daily basis.